

TEST REPORT

Applicant Name: McGrath Locks PTY LTD
Address: 4/36 Windorah St, Stafford Qld 4053, Australia
Report Number: 2504Z27522E-RF
FCC ID: 2BTTC-ML-ASCOT

Test Standard (s)

47 CFR §2.1091

Sample Description

Product Name: Digital Lock
Model No.: ML-Ascot
Trade Mark: 
Date Received: 2025-12-17
Report Date: 2026-04-14

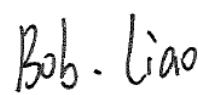
Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:



Jason Fan
EMC Engineer

Approved By:



Bob.Liao
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Z27522E-RF	Original Report	2026-04-14

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Digital Lock
Tested Model	ML-Ascot
Frequency Range	BLE 1M: 2402-2480MHz NFC: 13.56 MHz
Maximum Conducted Output Power	BLE:-11.76 dBm
Maximum E-Field Strength (Peak)	NFC:67.04dBuV/m@3m
Antenna Specification [#]	Internal Antenna, BLE Gain: 1.78 dBi (It is provided by the applicant.)
Voltage Range [#]	DC 6V from battery
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

- For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Result:

Radio	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#] (dBi)	EIRP		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
				(dBm)	(mW)			
BLE	2402-2480	-11.5	1.78	-9.72	0.11	20	0.000021	1.0
NFC	13.56	/	/	-28.16	0.0015	20	0.0000003	0.98

Note 1: The tune-up power and antenna gain are declared by the applicant.

Note 2: EIRP= Tune up conducted power + Antenna Gain

Note 3: E[dBuV/m] = EIRP[dBm] + 95.2 for d = 3 m.

For NFC EIRP= 67.04 dBuV/m@3m - 95.2 = -28.16 dBm

Simultaneous transmitting consideration (worst case):

The ratio=BLE/Limit + NFC/Limit = 0.000021/1.0 + 0.0000003/0.98 =0.0000213 <1.0

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Z27522E-RF EUT External Photos and Attachment No.2 2504Z27522E-RF EUT Internal Photos.

******* END OF REPORT *******